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1. A method of digital watermark embedding of messages in a media signal using quantization index modulation comprising:

receiving samples of the media signal;

receiving a watermark payload comprised of messages;

embedding the messages by quantizing samples of the media signal with multidimensional space filling quantizers corresponding to values of the messages being embedded.

- 2. The method of claim 1 wherein the space filling quantizers comprise lattice vector quantizers.
- 3. The method of claim 1 wherein the space filling quantizers comprise trellis code quantizers.
- 4. A computer readable medium comprising instructions for performing the method of claim 1.
- 5. A method of digital watermark decoding of messages in a media signal using quantization index modulation comprising:

receiving samples of the media signal;

quantizing the samples with multi-dimensional space filling quantizers corresponding to possible message values;

determining from the quantizing which of the possible message values is embedded in the samples of the media signal.

6. The method of claim 5 wherein the space filling quantizers comprise lattice vector quantizers.

- 7. The method of claim 5 wherein the space filling quantizers comprise trellis code quantizers.
- 8. A computer readable medium comprising instructions for performing the5 method of claim 5.